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# Moses selected to lead NIF programs

By Bob Hirschfeld  
NEWSLINE STAFF WRITER

Edward Moses has been named by LLNL Director Michael Anastasio, as associate director for the National Ignition Facility (NIF) Programs Directorate. Moses, who has worked at the Lab for 20 years, has been acting associate director since May, and NIF project manager since 1999. He replaces George Miller, who



BOB HIRSCHFELD/NEWSLINE

George Miller, Lab associate director-at-large, stands with newly named NIF Associate Director Ed Moses.

See **MOSES**, page 7

## Support for NIF remains staunch

There has been a great deal of news and speculation about next year's NIF budget in the newspapers, on the Web, and in conversations around the Lab. I know that it is difficult to tell exactly what the accurate story is. As the new associate director for NIF, I would like to share my perspective. Here is the short version:

- The NIF project and the National



## FROM THE DIRECTOR'S OFFICE

— ED MOSES, NIF

Ignition Campaign are in great technical shape.

- The many reviews that we have had this past year are uniformly positive.
- There is more agreement and commitment to the goal of ignition in 2010 among our sister labs and the National Nuclear Security Administration (NNSA) than ever before.
- The legislative process that you are

See **DIRECTOR'S OFFICE**, page 7

## Lab's Tom Isaacs serves on team assessing nuclear waste options for Canadian government effort

The Laboratory's Tom Isaacs was a featured speaker at the annual meeting of the Canadian Nuclear Society. His keynote address was dedicated to the future management of spent nuclear fuel from the country's reactors. Isaacs delivered the W.B. Lewis Memorial Lecture at the June 13 session of the meeting held in Toronto, Canada. The prestigious lecture series is named for Wilfrid Bennett Lewis, the Canadian nuclear scientist who developed the CANDU reactor commonly used in Canada to generate electricity. The title of Isaacs' presentation was, "Canada's Imminent Decision on Nuclear Fuel Management: Decision Making at the Intersection of Science, Politics and Society."

"Speaking to this group of distinguished nuclear scientists was an honor," Isaacs said, noting that previous lecturers included world renowned scientists and Nobel laureates. Isaacs is director of Policy, Planning and Special Studies for the Laboratory.

The Canadian Nuclear Waste Management Organization (NWMO), created and chartered by the Canadian Parliament in 2002 to develop a long term plan for the disposition of the country's spent nuclear fuel, tapped Isaacs' expertise and many years of experience working on the Yucca Mountain repository project for the U.S. Department of Energy and many other international nuclear programs. He is one of only two non-Canadians serving on a team assessing options for the management of spent nuclear fuel. NWMO was mandated to explore three options for the long-term management of nuclear waste from the nation's reactors: continued storage at power plants; centralized storage; and a

See **ISAACS**, page 8

## Ambassador Smith of Canada to discuss science and policy in DDLS presentation today

Ambassador Gordon S. Smith of Canada, will deliver a Director's Distinguished Lecturer Series presentation, "Transforming Knowledge into Policy and Action," at 2 p.m. today (July 15) in the Bldg. 123 auditorium. The talk is co-sponsored by the Laboratory's Center for Global Security Research.

As a result of research and analysis, it's clear that the world is facing many changes that will affect our very existence. Climate change and nuclear proliferation are two examples. What is the role of science in decision making and policy formation? How does one persuade those responsible to act? What is the impact of globalization in meeting these challenges?

See **DDLS**, page 7

## Lab cyclists ready for coast-to-coast ride

By Don Johnston  
NEWSLINE STAFF WRITER

After "dipping our toes in the Pacific" beneath the Golden Gate Bridge in San Francisco on July 31, Celeste Matarazzo will begin the fulfillment of a longtime dream when she and two companions climb onto their bicycles for the start of a 3,850-mile ride across America.

In early October, some 60 days later, the trio looks forward to "dipping our toes in the Atlantic" at Virginia Beach, Va.

Matarazzo, a division leader in Computation, will be accompanied by Rose O'Brien, B Division administrator in DNT, and

See **TREK**, page 8



From left: Rose O'Brien, Celeste Matarazzo and Janis Turner training for their cross-country ride.



Google revs Lab search engine  
— Page 3



Employee input sought  
— Page 3



Materials scientist shows his medal  
— Page 5





## LAB COMMUNITY NEWS

### Weekly Calendar

Technical Meeting Calendar, page 4

**Tuesday**  
**19**

Summer students are invited to attend the presentation **"For Solar Power, Concentration is the Key,"** to be given by Roland Winston of UC Merced today at 11:15 a.m. in the Bldg. 482 auditorium. A free barbeque will follow after the talk. To attend, students must register online at: <http://education.llnl.gov/sbb/>. Registration will close Monday, July 18. Contact Joanna Allen, 3-9225 for more information.

**Wednesday**  
**20**

Learn about **California State University, Chico's** computer science distance education program. CSU, Chico offers courses in computer science leading to both graduate and undergraduate degrees. Ralph Hilzer, graduate and distance learning adviser, will be at the Lab today at noon in Bldg. 571, room 1335, to discuss this program. Contact: Kathy Zobel, 2-9335.

...

Volunteers are needed to help plan the **13th Annual San Joaquin Expanding Your Horizons** in Science and Mathematics conference scheduled for Oct. 1 at the University of the Pacific in Stockton. Volunteers are needed in the following areas: co-chair, finance, fundraising, conference program, workshop presenters, publicity and media. For more information about the conference or to volunteer, go to <http://education.llnl.gov/eyh/>. For workshop presenter questions, contact Cary Gellner, 2-0643. For all other questions, contact Yuki Ohashi, 294-2393 ([yohashi@sandia.gov](mailto:yohashi@sandia.gov)).

**Up & Coming**

The Benefits Office will present, **"65 and Still Working,"** on Wednesday, July 27, from noon to 1 p.m. in Bldg. 571, room 1301. If you are 65 or are approaching 65 and are still working, find out how Medicare coordinates with your UC Health Plan. Space is limited; call Lisa Payne at 3-0950 to register. This presentation will be offered once a quarter. The next presentation is scheduled for Oct. 26.

...

The deadline for the next submission of **graduate and undergraduate academic plans** is Aug. 1. EODD is continuing to process requests for funding of degree programs on a quarterly basis. Review and approvals are done quarterly, rather than monthly, by the Student Policy Committee. All requests should be sent to the Education Office, L-728. Requesters will be notified following the Student Policy Committee meeting scheduled for the first Thursday of the following month. For additional information, contact the Education Office, 4-5479.

### IN MEMORIAM

#### Steven J. Brajkovich Sr.

Steven John "Steve" Brajkovich Sr. died July 6 in Clovis after a long battle with heart disease. He was 72.

Brajkovich, a former Tracy resident, was employed for 35 years at the Laboratory as a technician and manager in the mechanical engineering division. He worked on construction of the Shiva and Nova laser projects and also on the lunar module that collected the first moon rocks.

A native of Turlock, Brajkovich grew up in Tracy and graduated in 1951 from Tracy High School. He served in the U.S. Air Force as a gunnery instructor for crews of B-29 bombers sta-

tioned at Randolph Air Force Base in San Antonio, Texas.

In Tracy, he was active in the Jaycees, serving as president and taking part in a number of community service projects, including the first Fourth of July 'Day in the Park' programs. Over the years, Brajkovich hosted events at his home west of Tracy that were part of the Tracy High Class of 1951 five-year reunions. He also constructed and remodeled homes. He served as a member of the board of directors of the Plain View Water District before moving to Clovis five years ago. Services were held in Clovis.

#### Joseph Mendes Cunha

Joseph Mendes Cunha, a longtime Tracy resident, died on June 26. He was 92.

Born in Tulare, Cunha was a U.S. Army veteran who served in World War II. During the war, he was in the battles of Okinawa and Leyte Gulf, where he earned a Bronze Star.

A retired dairy-man, he worked at the Lab for 17 years. He was a member of Tracy VFW Post 1537, and a parishioner of St. Bernard's and

St. Anthony's Catholic churches. Cunha also was a member of U.P.E.C., the Luso-American Society and enjoyed traveling and gardening.

Cunha is survived by a niece, Diane King of Exeter, and three nephews, Gary Newton of Pine Grove, Gordon Newton of Elk Grove and George Silveira of Ceres.

Memorial contributions in his name may be sent to Tracy VFW Post 1537, 430 W. Grant Line Road, Tracy 95376.

#### Patricia 'Pat' Marten

Patricia 'Pat' Marten, a 12-year Tracy resident, died June 25 in Stockton. She was 69.

Born in San Francisco, Marten later lived in Livermore 11 years, where she retired as a secretary at the Laboratory. Her favorite hobbies were quilting, gardening and traveling. She was a member of the Tracy Garden Club for four years.

Marten is survived by her children, Kathy

Green of Galt, T.J. Green of Oregon, Eleanor and Dan Green of Tracy and Mike Green of Virginia; siblings, Mike Marten of Downey and Jenny Crow of Arizona; and seven grandchildren. She was preceded in death by daughter Mary Elizabeth Green; and brother Gordon Marten.

Contributions in Marten's name may be sent to Tracy Interfaith Ministries, 2441 Holly Drive, Tracy 95376.

#### Alex Yawornisky

Alex Yawornisky died July 2. He was 73.

He was born on Sept. 2, 1931 in Linden, N.J.

Yawornisky served as a corporal in the U.S. Army. He was a construction manager for the Laboratory for 32 years, retiring in 1990 and was the co-owner of Saber Security with his son, Rick Yawornisky.

Yawornisky devoted much of his time to making Little League baseball better at home and abroad. He became a dedicated volunteer in Little League baseball when he signed up his son, Rick, to play in Livermore in 1969. He served as a manager, vice president and joined the district staff as assistant administrator. He eventually became administrator, where he served for 15 years. He assisted Little League

International in running tournaments in Kutno, Poland. Upon seeing the need of the Polish teams for equipment and uniforms, he established procedures to obtain and ship items to various Little League programs worldwide.

He is survived by his wife of 46 years, Helen; two sons, Richard of Ripon and George of Bay Point; sister, Mary Yawornisky of New Jersey; brother, Constantine Burak of New Jersey; and four grandchildren, Heather Edwards of Tennessee, Andy Yawornisky of Ripon, and Megan and Zachary Yawornisky of Bay Point.

Services were held in Livermore.

## Newsline

*Newsline* is published weekly by the Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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### Memorial service: Mark S. Jones

The family of Lab employee Mark S. Jones, who died Oct. 27, 2004, will hold a celebration of his life at 1 p.m. Saturday, July 16, at the Masonic Hall, 212 N. Powers Ave., Manteca. Dress will be casual and Hawaiian shirts are encouraged. RSVP to [vljones1@comcast.net](mailto:vljones1@comcast.net) or call 209-815-6674. The "In Memoriam" for Jones was published in the Friday, Dec. 10, 2004 edition of *Newsline*.

# Laboratory converting to Google search system

By Charles Osolin

NEWSLINE STAFF WRITER

From now on, if you want to find something on a Laboratory Website, just Google it.

The Lab is converting to Google, the world's most popular search engine, in response to many employee requests for a faster and more efficient way to search through hundreds of thousands of pages on LLNL's external and internal Web servers.

Livermore purchased the Google search appliance last fall, and the Institutional Web Team has spent the last few months customizing it to search the Lab's institutional Websites. Google replaces Verity Ultraseek, the Lab's search engine since the mid-1990s, which is no longer licensed and will be taken offline at 5 p.m. today (Friday).

The Google conversion is part of an overall redesign and revamping of the Lab's external Web pages that began about two years ago. Along with a new



“look and feel” and updated content for the Lab's home page ([www.llnl.gov](http://www.llnl.gov)) and the top few levels below it, an effort is now under way to fix hundreds of broken links and to update, archive or delete outdated content throughout the [llnl.gov](http://llnl.gov) Web domain.

More than 5 million hits are logged each month on the Laboratory's Web pages. The Web upgrade project's goal is to achieve a “best-in-class” Web presence for the Laboratory that uses state-of-the-art software and search engines, contains current and accurate information, and communicates a consistent Laboratory message and “brand” to a variety of external and internal audiences.

Under the sponsorship of the Chief Information Officer and the Public Affairs Office, the Google team has been testing, tuning and “crawling” Lab Websites for the past few months. The team took pains to ensure that the change in search engines would appear seamless to Lab employees. Google begins indexing at the top of the LLNL Website and follows links to find all indexable pages within the LLNL “search collection,” which provides a wider and deeper search result. Pages that aren't linked from other pages in the LLNL search collection, however, will not be picked up by the Google crawler.

Search features on Lab Web pages that currently use the Ultraseek search engine will need to be replaced with Google, if they haven't been already. Web publishers can find more information at the Institutional Web Resource Center (<http://wrc.llnl.gov>) by clicking on the Google tab, or by contacting the Institutional Web Team at [iweb@llnl.gov](mailto:iweb@llnl.gov).

## Employees still have time to submit their ideas for Lab's future

Initiatives that will strategically position the Lab for the year 2025 will be discussed in detail when the Aurora committee members gather for a special two-day offsite, July 26-27.

During that time, Aurora team members will introduce ideas for expanded areas of scientific and technological research, new partnerships, improved infrastructure and much more.

Employees still have time to submit their ideas for the Laboratory's future via a special Aurora portal, located on MyLLNL, but time is running out. If you have a question or suggestion for any or all of the Aurora teams — Missions & Sponsors, Science & Technology, Operations & Infrastructure,



Partnerships & Relationships or Workforce & Work Environment — see the Website at <https://www-llnl.gov/> (Click on the Aurora logo on the right hand side of the page.)

The Aurora portal will shut down on Friday, July 22.

## Postdoc researchers offered chance to participate in symposia

Postdoctoral researchers in the Laboratory's Biosciences (BIO) and Chemistry and Materials Science (CMS) directorates will have a chance to hone their presentation skills this month in their directorates' postdoc symposia.

BIO's first annual postdoc symposium will be held Wednesday, July 20, in Bldg. 361. Oral presentations will be from 1 to 3 p.m. in the Darwin Auditorium, and a poster session will be held from 3 to 5 p.m. in room 1155. Three conference travel awards of \$3,000 each will be given for best oral presentation, best poster as determined by an awards committee, and best poster chosen by the audience.

The 2005 CMS postdoc symposium will be held from 9 a.m. to 4:30 p.m. Monday, July 25, in the Bldg. 155 lobby and auditorium.

The symposium will feature more than 40 presentations, both oral and poster, showcasing the research performed in the last year by postdocs. Oral presentations will be held throughout the day. Poster viewing will be available all day, with the formal poster session to be held from 1:30-3 p.m. At the end of the day, an awards ceremony will honor the recipient of the Harold C. Graboske Jr. Postdoctoral Award for outstanding postdoctoral achievements in the last year as well as the best symposium poster award.

The symposium is unclassified. Foreign nationals may attend if an appropriate security plan is on file which, includes Bldg. 155.

BIO's Kris Kulp, a member of the LLNL Postdoctoral Advisory Council, said the symposia provide an opportunity for postdocs to present their

research to other researchers in their directorates as well as other Lab scientists who attend the sessions.

“We're also hoping it will be a learning experience on what goes into a good presentation, be it oral or poster,” she said. While postdoc poster presentations are common, “oral presentations are becoming more of a rarity for junior staff members,” Kulp said. “We're hoping to give (the postdocs) positive feedback about what was good about their presentations, so they can use that to make their next ones even better.”

Titles and abstracts for the BIO symposium can be seen at [http://biopostdocs.llnl.gov/Postdoc\\_Abstracts.html](http://biopostdocs.llnl.gov/Postdoc_Abstracts.html). The CMS symposium agenda, including titles of the oral and poster presentations, is available at <http://cmsonly.llnl.gov/PostDocs/Documents/PostdocSymposiumAgenda2005.pdf>

## New electronic ordering now open to all Laboratory employees

Online catalogs in Procurement & Materiel's Electronic Ordering System (EOS) became available July 13 to all Laboratory employees with an OUN and PAC.

Employees may shop the catalogs and place items they would like to purchase in a shopping cart. Employees may not, however, execute orders in EOS. That function is reserved for TRRs. Employees will select a local TRR and forward the shopping cart to that individual. The TRR will review the contents of the shopping cart, obtain additional approvals as required, and execute the

order in EOS.

The following catalogs will be available to all employees: Allied Electronics (electronic components); Buckles-Smith (electrical supplies); Cal Steam (plumbing supplies); Cole Supply (packaging materials); CounterTrade Products — (computer peripherals and computer-related products); GMR (Apple and Dell personal computers); Grainger — (industrial supplies); Newark Electronics — (electronic components); Oakland Valve (Swagelok products); The Office City (office supplies); and VWR — only (chem-

icals and related supplies).

P&M Customer Support will conduct demonstrations of the EOS system to interested employees on July 19 and 21 at 1:30 p.m. in the Bldg. 361 auditorium. Employees are encouraged to contact Customer Support or a local TRR for help shopping the catalogs and submitting requests.

To access the catalogs, go to the P&M homepage, click LINC'S under the “Buy” heading, scroll down on the LINC'S page, and select Shop for Products under the EOS heading.





# NEWS YOU CAN USE



## Summer Student Calendar



Seminars, panels and other activities are in full swing for summer student employees. Go to the Student Bulletin Board at <http://education.llnl.gov/sbb/> for details and to register for events.

Tuesday  
**19**

**Social Activity — IEC Summer BBQ** — “For Solar Power, Concentration is the Key,” by Roland Winston, UC Merced.

11:15 a.m., Bldg. 482 auditorium followed by a free barbeque. To attend, students must register online at: <http://education.llnl.gov/sbb/>. Registration will close Monday, July 18. Contact: Joanna Allen, 3-9225.

**HEDP Seminar** — “Capabilities and Science of the Forensic Science Center,” by Glenn Fox, CMS Directorate. 1 p.m., Bldg. 219, room 163. Contact: Vickie Stone McFadden, 2-5308.

**ICMT Seminar** — “Computational Engineering Hot Topics,” by Robert Ferencz and Mike Puso, Defense Technologies Engineering/LLNL. 2:30 p.m., Bldg. 219, room 163. Contact: Tiffany Ashworth, 3-3491.

**Workshop** — “How to Design Effective Posters,” by Marsha McInnis, Mitch Alvarez and Kerwin Falls, University Relations Program. 10 a.m., Bldg. 219, room 163. Contact: Barry Goldman, 2-5177.

Wednesday  
**20**

**Social Activity** — 6th Annual Intern Variety Show, presented by Sandia student interns.

11:30-1 p.m., in front of Bldg. 911, Sandia. No registration necessary. Bring your lunch. Contact: Jan Bachman, 294-4660.

**DHS Seminar** — “Bio Monitoring,” by Dennis Imbro, PAT Directorate. Noon-2 p.m., Bldg. 132S, room 1755. Contact: Barry Goldman, 2-5177.

**ICST Seminar** — “Petascale Computing,” by David Jefferson, CASC/LLNL. 2:30 p.m., Bldg. 219, room 163. Contact: Tiffany Ashworth, 3-3491.

**Seminar** — “Current Status of the Solid State Heat Capacity Laser (SSHCL) and Tour of Facility,” by Robert Yamamoto, NIF Programs Directorate/Laser Science & Technology Program. 1:30-3 p.m., Bldg. 482 auditorium, room 1103. Contact: Dustin Riggs, 2-5780.

Thursday  
**21**

**Seminar** — “History of the Nuclear Weapons Complex,” by Chuck Loeber, Sandia National Laboratories. 8 a.m. - noon,

Bldg. 904 auditorium, Sandia. Contact: Jan Bachman, 294-4660.

**MARA Seminar** — “National Security Overview,” by Larry Ferderber, ADM Directors Office. Noon, Bldg. 219, room 238. Contact: Barry Goldman, 2-5177.

**MARA Seminar** (Classified, L Cleared only) — “Counterproliferation Analysis and Planning System (CAPS)” by Tony Farmer, Q Division, NAI. Noon. Location: TBD. Contact: Barry Goldman, 2-5177.

**Tour** — UC Santa Cruz campus, 8:30 a.m. - 4 p.m. Buses will pick up students in front of Bldg. 361, Biosciences Directorate. Contact: Jackie Zamora, 4- 3178.

**HEDP Seminar** — “Fusion Energy,” by John Perkins, AX Division, DNT. 1:30 p.m., Bldg. 219, room 163. Contact: Vickie McFadden, 2-5308.

**ASCI ITS Lecture Series** — “How Can We Get Reliable Software from Unreliable Programmers?” by Alfred Aho, Lawrence Gussman professor and vice chair for Undergraduate Education, Computer Science Department. 10:30 a.m. Bldg. 453, room 1001, Armadillo Auditorium. Contact: Tiffany Ashworth, 4-3491.

## Technical Meeting Calendar

Monday  
**18**

**PHYSICS & ADVANCED TECHNOLOGIES/V DIVISION**

“Phase Formation Under High Pressure Induced by Heavy Ions,” by Maik Lang,

Gesellschaft fuer Schwerionenforschung (GSI). 9 a.m., Trailer 3925, Redwood Room. Property protection area. Foreign national temporary escorted building access procedures apply. Contact: Stefanie Landes, 2-3201.

Tuesday  
**19**

**CHEMISTRY & MATERIALS SCIENCE**

Special Russian Scientists Seminar

- Session 1 — “Radiation

Damage Physics at IMP RAS,” (brief overview) and “An Influence of the Neutron Irradiation on the Physical Properties of the A15 Superconducting Materials,” by Valentine Arkhipov, deputy director, Institute of Metal Physics, Russian Academy of Sciences. 10 - 10:30 a.m.

- Session 2 — “Department of Experimental Physics of RFNC-VNIITF: Facilities and Research,” by Yury Zuev, department head, RFNC-VNIITF. 10:30 - 11 a.m.
- Session 3 — “Spin Susceptibility and Magnetic State of Pu in the Stabilized -Phase of Pu0.95Ga0.05 Alloy Probed by Ga NMR,” by Stanislav Verkhovskii, IMP, RAS. 11 - 11:30 a.m.
- Session 4 — “Pressure Induced Volume-collapse Phase Transition in Intermediate-Valence CeNi,” by Alex Mirmelstein, VNIITF. 11:30 a.m.- noon.

All sessions held in Bldg. 235, Gold Room. For all sessions, foreign nationals must have Bldg 235 included on their IA473. Contact: Mike Fluss, 3-6665, or Melissa Odom, 4-6324.

Wednesday  
**20**

**BIOSCIENCES DIRECTORATE**

“First Annual Biosciences Postdoc Symposium,” 1-5 p.m., Bldg. 361, room 1155 and auditorium. Oral presentations: 1-3 p.m., Bldg.361

auditorium. Poster session: 3-5 p.m., Bldg. 361, room 1155. Award ceremony: 5 p.m., Bldg. 361, room 1155. Refreshments will be available. Attend and vote for your favorite poster. Property protection area. Foreign national temporary escorted building access procedures apply. Contact: Al Ramponi, 3-3363.

Thursday  
**21**

**ENGINEERING**

Seminar series: “Global Energy Security, Renewable Energy, and Roadmap to a Hydrogen Economy - Hydrogen as an Energy Carrier,” by Gunnar Tamm,

U.S. Military Academy. 1:30 - 2:30 p.m., Bldg. 170, room 1091. Common use facility. Foreign nationals may attend. Contact: Helen Magann, 2-5229.

**NAI/R DIVISION**

“Libyan Redirection Initiatives: A New Partnership,” by Eileen S. Vergino, Andrew F.B. Tompson, Monika C. Witte, and Mo Bissani. 1:30 p.m., Bldg. 132S, NAI/DNT auditorium, room 1000.

Classification of talk: unclassified. Building access requires “L” or “Q” badge.

**CENTER FOR APPLIED SCIENTIFIC COMPUTING (CASC) / INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH (ISCR)**

“Numerical Methods for Space Plasma Physics,” by Anil Deane, Institute for Physical Science and Technology, University of Maryland, College Park. 10 a.m., Bldg. 451, room 1025, White Room. For more information, go to URL: <http://www.llnl.gov/casc/calendar.shtml>. Property protection area. Foreign national temporary building access procedures apply. Contact: David Keyes, 2-1325, Lori Diachin (CASC), 2-7130, or Erica Dannenberg, 3-2167.

Friday  
**22**

**ASCI ITS LECTURE SERIES 2005**

“How Can We Get Reliable Software From Unreliable Programmers?” by Alfred V. Aho, Columbia University. 10:30 am, Bldg. 453, room 1001, Armadillo

Room. Property protection area. Foreign national temporary building access procedures apply. Contact: Dan Quinlan, 3-2668, or Tiffany Ashworth, 4-3491.

**The deadline for the next Technical Meeting Calendar is noon Wednesday.**

Please submit your meetings via the new Technical Meeting Calendar form on the Web, located at <http://wwwr.llnl.gov/tmc/index.html>

# AROUND THE LAB



## New metal modeling technique earns high honor

**By Anne M. Stark**  
NEWSLINE STAFF WRITER

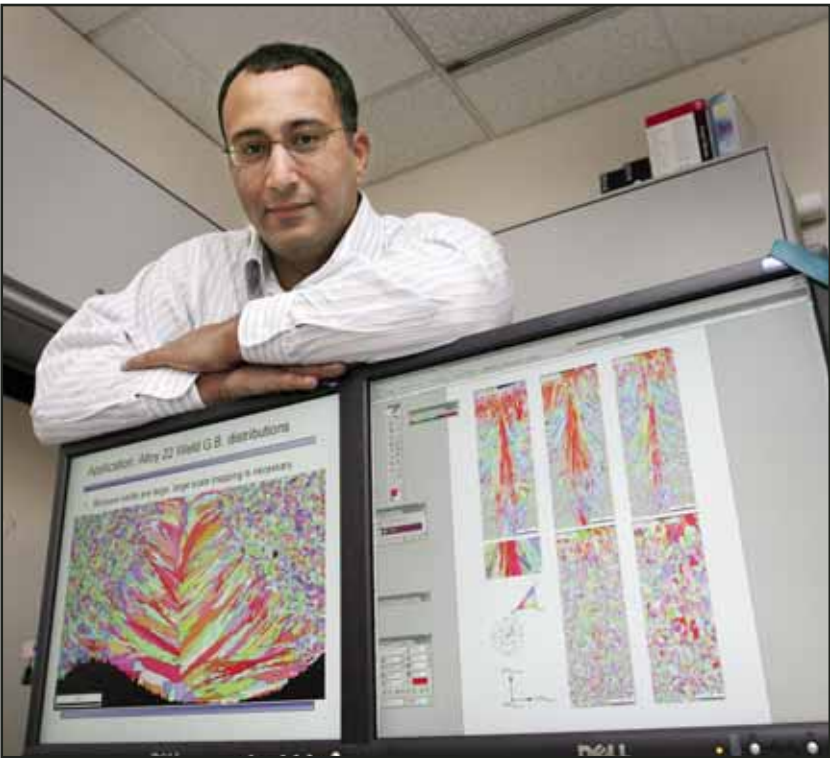
When Bassem El-Dasher was a little boy growing up in Egypt, his love of cars drove him to wonder how the metal in a car's body was formed. How could metal go from a flat surface to a curved piece without damaging the material?

That curiosity followed him into adulthood as he studied materials science. And his interest in the field has recently earned him ASM International's 2005 Henry Marion Howe Medal.

El-Dasher, who is currently a postdoctoral research fellow in the Chemistry and Materials Science Directorate, along with a team of Carnegie Mellon colleagues received the award for a paper entitled, "Statistically Representative Three-Dimensional Microstructures Based on Orthogonal Observation Sections," which appeared in *Metallurgical and Materials Transactions A*.

The Henry Marion Howe Medal was established in 1923 to recognize the authors whose paper has been selected as the best of those published in a given year in a specific volume of *Metallurgical and Materials Transactions*.

The authors came up with a formula in which only two perpendicular



JACQUELINE MCBRIDE/NEWSLINE

**Bassem El-Dasher, a Chemistry and Materials Science Directorate postdoc, recently received ASM International's 2005 Henry Marion Howe Medal for his contribution to a project that creates 3-D models of materials.**

lar sides of a polycrystalline microstructure are needed to model a three-dimensional structure of the same material. El-Dasher, who was completing graduate school at Carnegie Mellon at the time, worked on the experimental side of the paper. The lead author of the paper is David Saylor, a postdoc research associate at the Materials Science and Engineering Laboratory of the National Institute of Standards and Technology at the time the paper was written, and

currently a materials scientist at the Office of Science and Engineering Laboratories at the U.S. Food and Drug Administration.

El-Dasher said the new method saves an enormous amount of time compared to the typical process, which requires characterizing multiple serial sections of a specimen and then reassembling them to create the three-dimensional structure.

"The amount of time you save is so much compared to the older modeling technique," he said. "It's applicable to anyone who is interested in modeling materials in three dimensions."

El-Dasher is now using techniques associated with the process in his work on the Yucca Mountain project. His work focuses on characterizing the different phases that can form in the outer barrier of the Yucca Mountain waste package over time. In other words, how long could the materials retain their current properties and structure in the waste containers?

He was surprised to get an award for helping create this new technique.

"It really was a team effort," he said. "It just kind of happened, but I'm very thankful."



JACQUELINE MCBRIDE/NEWSLINE

## Blood drive champions

Jan Tulk, associate director for the Administration and Human Resources Directorate, and Steve Goodman, LLESA general manager, display the "Blood Drive Champion" award that the American Red Cross recently presented to the Lab for donating the most blood of any one organization in Northern California last year.

During 2004, the Lawrence Livermore Employee Services Association (LLESA) sponsored 17 blood drives that resulted in a total of 1,192 pints of donated blood. With three life-saving products per pint, Lab employees' blood donations have affected more than 3,500 lives.

The Lab has been holding successful blood drives to help meet the increased demand for blood in the area for approximately 25 years. Besides being the largest donor group in Northern California, in 1999, LLNL was the first Red Cross Beta site for the now successful, nationwide online appointment scheduling system, BeADonor.com. The next Lab blood drive will be Aug. 8-11 in Trailer 4675.





# CLASSIFIED ADS

See complete classified ad listings at

<https://www-ais.llnl.gov/newsline/ads/>

**AUTOMOBILES**

2003 - PT Cruiser, blue, touring edition, excellent condition, 30k miles, has Mfg. Warr. to 36K. 10,800.00 OBO 209-239-2639

1986 - CORVETTE - red, very original, very clean, 2nd owner, have all paperwork, must see. \$7000.00 925-634-0423

2003 Honda Civic 2dr LX 38MPG, 5spd manual, 56k miles, Silver w/ black interior, alpine alarm, \$9900 Peter 916-798-5825 cell 209-983-0077

1995 - Chrysler LeBaron GTC convert., 82K orig. mi., 3.0L, spruce green, CD, all-pwr, ABS, leather, prem. wheels, fine cond. \$3750 925-447-7082

2002 - Honda Accord EX V6 Sedan-Silver 69,050 miles Excellent condition, fully loaded. \$13,950.00 Ask for Harry 925-449-1829

1997 - BMW 528i, good condition, dark green, new tires, 102k miles. \$11,000 OBO 925-784-2071

2000 - Honda Civic LX Automatic Power windows and locks Air. 90,000 miles in perfect condition. Priced at \$8000. 209-640-0753

1993 - Ford, Bronco, XLT, 53,000 miles, excellent condition, automatic, AC, V8, 5.8ltr, alloy wheels, tow package, bluebook \$6800. 408-272-4612

1990 - Silver Cadilac Eldorado,4.5L V8. Leather interior. New tansmission and air condition, 242k miles, \$3,500.(510)417-0497. 510-223-2978

1997 - BMW 528i, Cobalt Blue, runs perfect,great car, have all receipts. 925-443-3358

1987 - BMW 535i, fair condition, \$2,000. 925-634-2362

2004 - Mitsubishi Lancer ES. Estate sale, only 7200 miles, absolutely clean as new. 2.0 engine, auto, A/C, P/W, P/L. Great commuter or college car. \$11,500 925-828-4457

**AUTOMOBILE ACCESSORIES**

Trailer Hitch/Lighting Kit, Receiver-type, fits 90-93 Honda Accord. 200# tongue wt., #2500 total capacity. \$75/\$100 installed. 925-455-0577

Set of 4 wheels with new Big O tires for Astro Van. 925-634-2362

**CAMERAS**

Slide/movie copy box-large view \$25 Photo albums, pages, etc. all new 925-735-6002

**ELECTRONIC EQUIPMENT**

10 ft C band dish, receiver, Videocipher decoder. \$200. (925) 447-2224

HP Deskjet Printer 855c for the Macintosh computer with print drivers and books. \$35.00 925-449-8035

Dial-up Modem used only 1 month like new 25\$ 925-922-1686

**GIVEAWAY**

Picnic Table, fiberglass, round, w/attached benchseats. Seats 8. About 7 feet in diameter. 925-447-7872

Datsun 240Z tub, roller, fairly

straight, possible other Z parts, you take it out 925-337-2260

**HOUSEHOLD**

Double bed w/mattress & box spring, Stanley matching head-board, night stand, 3-drawer dresser w/mirror, desk w/bookshelf & chair \$550. 209-823-8089

10 mph treadmill \$100, Anthro-cart \$45, beveled glass 4ft round coffee table \$75. 925-447-2224

Wooden desks(3) 1 exec. with some minor side scratches \$65, 2 older need refinishing \$25ea. 925-596-0165

Sleigh Crib and matching Changing Table. Scandinavian influenced - Cherry finish. Unused, Spoiled baby stayed in our bed! \$275. (Paid \$610.) 925-249-1786

Canning jars, various sizes. \$10.00. If interested, will bring to work. 510-582-2938

Proform 995 Sel Treadmill. 1 year old hardly used. Excellent condition. Retail for \$700.00 will sell for \$300.00 209-234-7483

White Kenmore Clothes Washerwith multi- cycle washing; works very well and gets clothes really clean !! Asking \$150; willing to negotiate. 925-373-3195

Leather Lift Belt \$15 925-735-6002

Moving sale. Furniture, kitchen appliances, and miscellaneous items must be sold by end of July. All for \$312 call for list. 808-754-3908

Electric Dryer, GE, Heavy Duty, White, Cord and Paperwork Included, Excl. Condition, \$100 925-443-3970

Roll Top Desk, solid dark oak with Locking top. Paid \$1200, sell for \$400 firm. Not a scratch 925-516-8339

KITCHEN TABLE & CHAIRS - Wrought iron table has painted wood top. Comes with 4 wrought iron chairs with padded seats. Very sharp! \$150. 209-836-3365

Mattress ñ Posterpedic full size bed w/ box spring and frame. Excellent condition. Only 7 months old, \$75.00 obo. 925-371-7995

Iron Rowenta Powerpress DM 170, used only 1 month, like new, 45\$ 925-922-1686

**LOST & FOUND**

Found: One pierced earring at central cafe 7-12-05. Silver with pink flower and dangling beads. 925-449-6911

Black trifold snap women’s wallet with metal buckle decoration. Lost 7/8/05. Call lab or Rm 313 at hotel # 925-606-6060

**MISCELLANEOUS**

Breast Pump (Medela, Pump in Style), very little use. Original unopened Medela CSF bags and disposable nursing pads \$125.00. 925-249-1786

Sturdy, white sofabed frame. Sofa in the day and bed for the night. Great for college or guest room. You add the futon. Make offer. 925-516-2570

Large Samsonite suitcase, 32x20x14, great condition, used once. \$45 Artificial Xmas Tree, \$50 925-447-7088

Two tickets to OZZFEST at

Shoreline on Saturday, August 13. Section 203, Row G. \$225.00 for both. 510-440-1835

Baby Bjorn Carrier \$40. Like new. 925-249-1786

Industial Minor Saw, good for detail. Hardly used. Excellent quality. If interested, will bring to work, 50.00 OBO 510-582-2938

Desk, mint condition. \$150 925-443-5552

**MOTORCYCLES**

84 - harley 80in shovelhead dyna wide glide flh fat boy belt drive,2 sets of saddle bags, 2 sets of chaps s&s carb 23,000 clean \$8500.00 209-634-9984

**MUSIC INSTRUMENTS**

Yamaha DGX-202 Portable Keyboard, 76 key, 32 note polyphony, stand, 6 mo old, barely used, daughter not interested \$275 offer 209-838-0304

Vose and Sons Piano - antique upright - fixer upper - \$600 or best offer - call after 7:00 p.m. 209-836-9152

Acoustic guitar and soft case - great for a beginner. \$50. 209-814-5278. 209-832-3331

**PETS & SUPPLIES**

German Shep.pups/Pet and show quality. Champion sire/dam, OFA certified hips/elbows. Herding Instinct; Great looks and temperment. \$800 and up 925-373-4791

HAMSTER CAGES - 1 single story (\$10), 1 two story (\$15). Both plastic with tubes, wheel, food tray & water bottle. Great condition. 209-833-9141

Reg. Yrlg. Hereford Bull for Sale! Low birth & high milk! Great for those heifer that need to be bred. \$1200 call for more info! 209-968-2278

Chocolate Lab Puppies born 6/28/05. W/be ready 8/28/05. Mother & Father AKC Registered. Litter Registered. Girls \$800 / Boys \$700. 209-832-8950

**RECREATION EQUIPMENT**

1984 - Winnebago Chieftain 22 ft Motor Home, Great Condition, 454 Engine, Low miles on Motor. Generator, frig, stove. 82K miles on Coach \$3,500 or BO 925-449-8020

Like new Leupold M8 6X rifle scope in gloss black finish. Mounted on a rifle, removed and currently looking for a new owner. Asking \$175 209-368-4286

35HP electric start outboard Evinrude with propeller, shift and throttle cables, key and gas can. 766-8233. \$350 takes all. 925-516-2570

golf cart walking type, great condition,\$30 925-443-9179

Nordic Track, excellent condition with pad and magazine, cup holder \$75 925-373-0314

For skateboards, bmx, rollerblades: Factor X Launch Ramp \$15, and Fun Box Ramps (3 pieces) \$35 209-835-9490

Bow Flex with all attachments, \$300. 925-443-5552

**RIDESHARING**

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsm>.

Modesto - Vanpool accepting riders. Leave Home Depot at 6:35 am, in evening leave at 4:45 pm, M-F. 209-576-0217, ext. 2-7459

Oakland/Montclair - Vanpool has openings. Conventional (5/40) schedule: leave Oakland/Montclair 7:30 a.m.; leave LLNL 5:00 p.m. 510-530-1289, ext. 2-9831

Modesto - Space opening on 14 passenger van. Captain chairs, reading lights, etc. 8:00 to 4:20 schedule. While not required, help drive and save more! 209-521-9047, ext. 2-5177

**SERVICES**

Responsible Livermore High School honor student available for babysitting, house and/or pet sitting. Reasonable rates. 925-447-1428

Volunteers wanted at large Air Museum at Oakland Airport, paint elec., roof, grounds, airplane restore, graphics, plumb, house keepers, retail sales 925-337-2260

INTERIOR, EXTERIOR PAINTING, free estimates. Good time for painting before the weather gets too hot. Excellent workmanshp, 25 yrs exp. References. 510-537-7222

Hauling Service. Estate Cleanouts, Attics, Garage, Shed and Barns, Misc. 925-373-9540

CONCRETE-foundations, custom, stamped, colored, sealing & more. Over 20 years experience. Free estimates. Lic #787092-B 408-806-9816

**SHARED HOUSING**

Livermore - Spacious room w/double closet, full bathroom, own parking space. Move in immediately. Close to LLNL, Sandia, Downtown. \$650 mth + Utilities 209-321-0294

Pleasanton - Lg bedroom + bath in 2BR 2BA apartment (w/d, dw, fp, vaulted ceiling). Female only, no pets/smoking. \$645/mo + 1/2 utilities. 510-409-4002

**TRUCKS & TRAILERS**

1984 - Winnebago Chieftain 22 ft Motor Home, Great Condition, 454 Engine, Low miles on Motor. Generator, frig, stove. 82K miles on Coach \$3,500 or BO 925-449-8020

1996 - Ford Ranger XLT, extra cab, good running, bedliner,long bed, security system, cassette. Nice little work truck 5,250.00 OBO 510-537-7222

1979 - MOTOR HOME- Southwind Class C 24 feet with Dodge chassis, 50,000 miles, fully self contained lots of improvements. \$4995/OBO Call 925-455-6395

Motorcycle Trailer - built for two bikes - very good condition - Call \$1,800 obo 209-823-3848

2000 - Chevy Tahoe Z71 4WD,5.7L, 58K mi, Dark Blue, Leather interior, Dual heated and power seates, rear A/C, \$18,500 925-935-7363

1986 - Ford F-150, 4-speed manual, overdrive. Runs good and has been smogged. \$2,800 209-992-1533

**VACATION RENTALS**

Maui, Wailea Ekahi, 1 bedroom, 2 bath, luxury condo, tropical beach resort. Discounts for July. 209-478-0340

Cozy mountain cabin near Arnold. 4bedr, 2 bath. Near hiking, fishing, streams. Clear, blue skies,very relaxing. 925-245-1114

Sooo cute beach cottage in Santa Cruz, near harbor. 2bedr, 2bath, spa. 4blks to ocean. Plan ahead for beautiful fall weather! 925-245-1114

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. LLNL rates for year-round reservations. 925-449-0761

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished, quiet area, park with Lake, tennis, etc., Great for family vacation. RESERVE NOW! 209-599-4644

Pinecrest - (Off Sonora Pass Road), 3 bdrm/2 bath, frplc w/wood, microwave, dishwasher, pool table, large deck and view up No. Fork of Tuolumne, \$195/wknd. 925-449-5513

**WANTED**

Needed: previously owned tennis balls. Have new practice machine and no balls. 925-245-1114

Wanted: Old kitchen cabinets 925-784-7557

Wanted - Futon in good condition, wood frame. 925-449-8035

Wanted: boat trailer, 20 ft or longer to customize for 3 jet skis. 209-239-7888

We are looking for a small condo or small studio to rent in Honolulu for 2. Low rate for Dec. 24 to Jan 14. Dates are open. 510-537-7222

Wanted-Picnic Table in Good Condition 925-240-9992

Wanted: puppy-sitter in Antioch. Puppy is 9 months old, small, short hair, crate trained, very active, and very cute! Must have safe yard. 925-706-2088

Flat-bed car hauler/trailer. Dual axle, 3500lb/axle minimum, with lights and brakes. 925-513-4767

MOVING BOXES - FREE OR CHEAP. Moving two households. 209-833-9141

Looking for Little Tikes Sand and Water Play Table. Deluxe/Easy to Store or Endless Adventure w/Castle. Ages 1-5. 925-875-1463

Help the needy. Donate your gently used clothing to Nineveh Outreach. 1601 Coffee Road, Modesto. Wednesdays 6pm-8pm, Fridays 4pm-6pm. 209-529-7346

93 retiree needs old Apple Computer, Centris, Performa or MacII, to extract data from old floppies. 209-892-6626

Welding Table or Steel Plate to make a Table. 925-455-1730

wanted:swimming pool equipment stuff- vacuum hose, solar cover storage reel,etc. 925-443-9179

People who want to play Hockey Wednesdays and Fridays 12:00 to 1:00 at Valley Roller Hockey. Beginners welcome. 925-548-7370

Smaller outboard motor (5-20 H.P.) Want to use as backup for older Sears runabout. Up to \$800. 209-892-1918

Pre-owned AT&T cell phone, GSM 850/1900 Mhz, 209-832-8945



MOSES

Continued from page 1

was named associate director-at-large earlier this year. Moses will be responsible for an organization with nearly 850 employees and a combined annual budget of \$385 million.

“Ed has expertly guided NIF forward to its current position as the world’s largest operating laser system. NIF is a project of tremendous scale and complexity,” Anastasio said. “Ed’s leadership as NIF project manager has demonstrated his strong scientific and organizational capabilities, as well as his ability to manage and inspire a safe and diverse workforce. I am confident NIF will continue to achieve its scientific and national security goals.”

In his new role, Moses will be responsible for completing construction of the NIF, and transforming it into a national user facility. This includes fostering the development of advanced diagnostics and laser technologies for national security, competitiveness and energy needs. He will lead the National Ignition Campaign to achieve fusion ignition, fulfilling the Inertial Confinement Fusion Program’s role as a vital

and an integral part of the overall Stockpile Stewardship Program.

“I am honored to lead the NIF team,” Moses said. “We have already come a long way toward achieving our goals of creating the world’s largest laser system. I’m proud of what we’ve done so far, meeting all of our goals and milestones for the last five years. I am especially proud of our outstanding safety record of more than four million hours without a lost workday.

“We still have significant challenges ahead,” he said, “But our team has shown its ability to overcome obstacles in building one of the world’s most important scientific tools for the 21st century. The promise of NIF cannot be overstated in terms of keeping our strategic defenses safe and effective, in guiding our nation toward the goal of the potential for fusion energy, and in exploring physics at extreme conditions. I look forward to the completion of our project in the coming decade, and the beginning of a new era in applications of this technology for our nation’s needs.”

In addition to his NIF management experience, Moses served as assistant associate director for program development in the Physics and

Space Technology Directorate from 1995 to 1998. One of his most interesting efforts was leading a program called Peregrine that developed more accurate ways to treat cancer with radiation. He led the Isotope Separation and Material Processing program and served as deputy associate director for Lasers from 1987 to 1990, with several other previous assignments in the Laser Directorate.

During a five-year leave from 1990 to 1995 from the Lab, he was executive vice president for Advanced Technology Applications. His career as a laser scientist began at Hughes Aircraft Company in 1977.

Moses holds seven patents in laser technology and computational physics. He has received the National Nuclear Safety Administration Defense Programs Award of Excellence for significant contribution to the Stockpile Stewardship Program, the D.S. Rozhdestvensky Medal for Outstanding Contributions to Lasers and Optical Sciences, as well as numerous awards for outstanding achievements in project and construction safety.

He has bachelor’s and Ph.D. degrees in electrical engineering from Cornell University.

DIRECTOR’S OFFICE

Continued from page 1

reading about is not over and not likely to be for some time. This is normal for this time of year and the Lab is actively engaged in providing information as requested.

Let me give you some more detailed information.

- NIF finished the NIF Early Light (NEL) series, firing the laser more than 400 times, demonstrating full capability on a per beam basis and participating in four major experimental campaigns. The results have been published in several papers and presented at prestigious scientific and engineering conferences.
- The national inertial confinement fusion (ICF) community — Lawrence Livermore, Los Alamos and Sandia national laboratories, the Laboratory for Laser Energetics, and General Atomics — has agreed to a comprehensive five-year National Ignition Campaign (or NIC) to attempt a credible ignition campaign on NIF in 2010.
- Prestigious committees have completed several recent reviews. The Defense Science Board concentrated on the NIF mission, the Independent Project Review looked into the rebaselined the NIF plan, and the JASONs delved into ignition physics. Their reports were positive and encouraging to our efforts.
- The directors of the national laboratories, as well as the NNSA Administrator, Ambassador Linton Brooks, have demonstrated their full support of the NIF and NIC in recent strongly positive letters to Congress.

What we have done together, and the support that we have gathered, are unprecedented in the history of this program.

Of course, this is only part of the story. We are now in the middle of the legislative process for the FY06 (next year’s) budget, which starts in October. This is a long and complex process. Let me explain how it happens.

- The NNSA operates in the context of a Five Year National Security Plan called the FYNISP. It is the defining document for all NNSA activities and it becomes part of the president’s budget, which he submits to Congress in early February. This is what Congress uses to develop its own legislation on how it wants the federal budget to be allocated.
- The House and Senate work on the budget separately, each having a series of sitting committees that take on specific areas. To make matters a little more complicated, there are two types of committees — those that authorize (policy making committees) and those that appropriate (funding committees). All NIF activities are under the House and Senate Armed Services Authorizing Committees and the House and Senate Energy and Water Development Appropriations Committees.
- After a bill has passed through their committees, each house “moves them to the floor” for approval or disapproval votes. But this is usually not the end of the story. The two chambers have different constituents and agendas and their bills are rarely the same. Because Congress can only send one bill to the president, the leadership of the House and Senate form “conferences” to iron out their differences.

OK, so where is the NIF in this process?

- The FYNISP continues to support the NIF project and the NIC plans and so does the president’s budget.
- The House and Senate Authorization committees support the NIF and NIC plans. The full

House has voted in support of the House Defense Authorization bill providing full funding authorization for the NIF. The Senate authorization bill is still awaiting floor consideration.

- The House Appropriations committee supported the NIF and NIC plans at the president’s budget, increased funding in other specific areas, and the full House voted in support of it.
- The Senate Energy and Water Appropriations Committee eliminated the NIF Project construction funds, but supported other aspects of the ICF program; as a part of the full bill, the Senate voted along with this recommendation. If this were to prevail, it would prevent completion of the project.

So now we have reached the point where the House and Senate have to meet in conference to reconcile differences between their two bills. There are many other issues besides NIF that reflect differences in policy and emphasis between the two chambers of Congress. This is not the first time that this has happened, and even though this process is scheduled to be completed by October, like last year, it could go on longer.

There is strong support for the NIF in the Administration and with many in Congress. Gov. Schwarznegger also has been very supportive and helpful.

This is where we are now.

Our job is to build the NIF and go for ignition in 2010 and support the Stockpile Stewardship Program. We are poised and ready. The Lab and our partners have built a great team with a proven capability to perform. The most important thing we can do is to perform at the outstanding level we always have.

I am confident that we will succeed.

DDL

Continued from page 1

Smith will address these and other questions. He is currently the executive director of the Centre for Global Studies, and adjunct professor of political science at the University of Victoria. Since 1997, Smith has been chairman of Canada’s International Development Research Centre and co-chair of the Canada Corps. He currently holds positions as executive director of the Canadian Institute for

Climate Studies, visiting professor at the Diplomatic Academy of the University of Westminster (London and Paris), member of the advisory committee for the Conflict Analysis and Management Program at Royal Roads University and associate faculty, member of the Canadian Group of the Trilateral Commission, and co-chair, advisory board, Consortium for Economic Policy and Research in Russia.

Smith has served the Canadian



Gordon S. Smith

government in many capacities, including as the secretary of the Ministry of State for Social Development, deputy minister of Foreign Affairs and International Trade, the permanent representative and ambassador to NATO for Canada, secretary to the Cabinet for Federal-Provincial Relations, as well as the Canadian ambassador to the European Communities. He received his Ph.D. from MIT in political science.

ISAACS

Continued from page 1

geological repository similar to Yucca Mountain. A preliminary discussion report was produced this spring and final recommendations are due to the Canadian government by Nov. 15 of this year.

“My work on the advisory panel builds a bridge between the Lab and NWMO,” Isaacs said. “When Canada moves to implementation of the NWMO plan, there may be an opportunity for collaboration with the Laboratory. We face many similar issues and there’s potential for mutually beneficial collaboration.”

The NWMO assessment team on which Isaacs serves visited the Laboratory in April 2004 and received briefings on Laboratory contributions to the Yucca Mountain repository project as well as energy, security and risk related programs (see the April 16, 2004 edition of *Newsline*).

Isaacs said that like the United States, Canada

faces the challenge of how to manage a burgeoning quantity of nuclear waste from its 22 reactors. Drawing on his experience and “lessons learned” working on the Yucca Mountain Project, Isaacs has been advising the team “on the technical, institutional, and political aspects of the process” for establishing a plan for the disposition of nuclear waste.

“The Laboratory is a major contributor to the Yucca Mountain Project by providing expertise in characterizing the site, scientific and technical information related to disposal and developing codes for computer modeling to assess performance,” he said. “I would hope we can contribute research and development to the Canadian program.”

Elizabeth Dowdeswell, president of NWMO, said Isaacs’ “broad experience” and ability to think strategically and integrate different perspectives has been “instrumental in the success of the assessment team.”

“This is a very unusual multidisciplinary group,” Dowdeswell said, with members representing such varied disciplines as nuclear engineering, political science, ethics and values, environment and policy making. A variety of perspectives is important to the team’s work, which she likened to a “jigsaw puzzle with hundreds of different pieces that are somehow all connected.”

“Tom is a problem solver. He had the ability to move us beyond consideration of the technical issues,” Dowdeswell said. “He brought to the team a sense of confidence.”

Isaacs said he has been very favorably impressed by the NWMO’s approach to the development of a long-term nuclear waste management plan, including the organization’s success in engaging Canadians in a national dialogue through public meetings held across the country. “Working with NWMO and President Dowdeswell has given me a real sense of satisfaction and contribution to an important problem.”

TREK

Continued from page 1

Janis Turner, a retired East Avenue Middle School teacher, on a “Cycle USA 4 Hope Tour” across the country — a trek they will use to raise money for the Tri-Valley’s Hope Hospice.

“Bicycling across the country has been a goal of mine for more than 20 years, even [though] my family thought I was crazy,” said Matarazzo, whose love of the outdoors dates to her Long Island, New York, childhood. “The three of us have discussed this trip for many years but only committed to this date about 14 months ago, when we began seriously training and planning for the trip.”

The three decided to use the ride to raise funds for Hope Hospice because they know many families who have benefited from the hospice services. “It’s a local charity the three of us strongly support,” Matarazzo says. “This trip is a celebration of life and of living with dignity. That’s what Hope Hospice allows people to do.”

A veteran cyclist and backpacker, Matarazzo has bicycled in England and other parts of Europe. “There’s something about the pace of bicycling that allows you to see and experience day-to-day life in a place.”

However, unlike the densely populated British Isles, they will scale high mountain passes — crossing the Continental Divide at the 11,312-foot Monarch Pass in Colorado — and traverse vast expanses of country with great distances between

### Where to send donations

Donations may be made by check directly to Hope Hospice. Matarazzo, O’Brien, and Turner request that contributors note in the memo portion of the check that the contribution is for “cycleusa4hope,” so they can acknowledge all donations in support of their endeavor. Checks may be sent to: Hope Hospice, 6500 Dublin Blvd., Suite 100, Dublin, CA 94568. For questions, send e-mail to [donations@cycleusa4hope.org](mailto:donations@cycleusa4hope.org).

towns and services.

When Matarazzo proposed the trip, O’Brien jumped at the opportunity to add a new experience to her list of adventures, which includes trekking in Nepal, and mountain bike trips in Alaska, the Grand Canyon, and from Leadville over the Continental Divide to Vail, Colo. A former triathlete, she also has toured through Europe, parts of Virginia, Vermont and Iowa on a road bike.

“Anytime there’s an opportunity for a new adventure and new challenge, I’m ready to go,” said O’Brien, who has worked at both LLNL and LANL Laboratories for more than 37 years. “This is an opportunity to watch the entire North American Continent pass under my wheels. I’ve never done a

trip like this.”

The cycling troika will be accompanied by retired Lab engineer, Walt Sokoloski, who will drive a support vehicle with food, water, spare parts, camping gear and clothes for a variety of weather conditions. Matarazzo’s husband, Brett Wayne, who also works in the Computation Directorate, will provide bike maintenance, logistics, Web support and drop-in services.

“We’ll take what we need for each day’s ride,” Matarazzo said, adding they expect to cover an average of about 65 miles a day over a well established bicycling route published by the nonprofit group, Adventure Cycling.

“Cycle USA 4 Hope” is accepting pledges for donations — supporters may pledge a cent per mile, for example — to Hope Hospice. Donations may be made directly to Hope Hospice (see donation information at left).

More information, progress reports, and a travelogue, replete with photos, will be available via the Website, [cycleusa4hope.org](http://cycleusa4hope.org). To contact them, send an e-mail to [cyclists@cycleusa4hope.org](mailto:cyclists@cycleusa4hope.org) (need to confirm)

Matarazzo said the trip was timed to provide optimal weather conditions across the country as well as to minimize disruption to work schedules and projects. “We’re getting a lot of support from family, friends and colleagues, and that’s really important to us,” she said. “Computation and Defense and Nuclear Technologies have been very supportive of this trip.”

Upward bound



SCOTT WILSON/PAO

LLNL physicist Doug Wright takes questions from students July 8 following his talk to a visiting Modesto Community College “Upward Bound” class. Wright’s presentation to the Central Valley high schoolers was followed by a Discovery Center tour and a “Fun with Science” demonstration.



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